Office Action Summary		Applicati	on No.	Applicant(s)	Applicant(s)	
		10/643,0	63	CHOI ET AL.		
		Examine	•	Art Unit		
		Dung Ngu	iyen	2871		
Period fo	The MAILING DATE of this communic or Reply	cation appears on the	e cover sheet w	rith the correspondence a	nddress	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN INSIDE OF THE OF THE MAN INSIDE OF THE MAN INSIDE OF THE MAN INSIDE OF THE MAN INSIDE OF THE MAN	ALING DATE OF THE f37 CFR 1.136(a). In no evenication. Utory period will apply and will, by statute, cause the appropriate the appropriate in the	HIS COMMUN ent, however, may a ill expire SIX (6) MO blication to become A	ICATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).		
Status						
1) 又	Responsive to communication(s) filed	l on <i>06/15/2009 and</i>	l interview 08/1	19/2009.		
, —	This action is FINAL . 2b)⊠ This action is non-final.					
3)	, _					
,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	•	•			
·)⊠ Claim(s) <u>1-3,5,7,8,10-16 and 18-20</u> is/are pending in the application.					
7/63	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
, —	☑ Claim(s) is/are allowed. ☑ Claim(s) <u>1-3,5,7,8,10-16 and 18-20</u> is/are rejected.					
7)	_					
, —	Claim(s) is/are objected to: Claim(s) are subject to restriction and/or election requirement.					
		on ana/or election i	equirement.			
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2)	t(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO/SB/08) cr No(s)/Mail Date	⁻ O-948)	Paper No	Summary (PTO-413) (s)/Mail Date. <u>08/18/09</u> . Informal Patent Application 		

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DETAILED ACTION

Applicant's response dated 06/15/2009 has been received and entered. By the amendment, claims 1-3, 5, 7-8, 10-16 and 18-20 are pending in the application.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-3, 5, 7-8, 10-16, 18-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 13 and 19, it is confusing and unclear what is meant by "discontinuous …electrode". It should be noted that "discontinuous electrode" is a well-known term denoted for a discrete electrode (i.e., electrodes having parts that are not physically connected to each other. For the purposes of examination, as best understood, it is assumed that Applicant tends to recite the "discontinuous electrode" as of the electrode having two or more adjacent finger like extensions with gaps therebetween and open one-end of the electrode.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 5, 7-8, 11-15 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US 6,469,765, in view of Tai et al., US 2001/0046027A1.

Regarding the above claims, Matsuyama et al. disclose a liquid crystal display (LCD) device (figures 9-10) comprising:

- . a first substrate (902) with a continuous first common electrode (908)
- . a second substrate (802) with both a discontinuous pixel electrode (300) and a continuous second common electrode (410) with a gap therebetween
- . a liquid crystal layer (1000)
- . means for generating an electric field (first electric field) between the first common electrode layer and the pixel electrode layer, an electric field (second electric field) between the second common electrode layer and the pixel electrode layer (see figure 4), wherein the first electric field can be different from the second electric field (see col. 13, ln 61).

Matsuyama et al., however, neither disclose a discontinuous second common electrode located above the continuous pixel electrode nor disclose a display with a fast response to high input data rates and allows for wide viewing angles for viewers.

Tai et al. do disclose an in-plane switching type LCD device in which a discontinuous common electrode (303/409) formed over the continuous pixel electrode (302/406)(see figures 3 and 4F). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ the Matsuyama et al. second common electrode having a discontinuous-shaped electrode and located over the pixel electrode as shown by Tai et al. in order to increase the effective transmission of light and has no effects of strong electric field at the comer as well as to eliminate Residual electric charges in an LCD display (see [0031]).

In addition, one of ordinary skill in the art would be able to achieve the same result for the Matsuyama et al. display because of the same display structure as well as the method of using such display. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the similar display as well as a method of using as shown by Matsuyama et al. display in order to obtain a fast response display.

5. Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 6,469,765, in view of Tai et al., US 2001/0046027A1, further in view of Nakanishi et al, US 6,819,384.

Regarding claims 10 and 16, the modification to Matsuyama et al. do not appear to explicitly specify a dielectric layer/resistive layer adjacent a common electrode layer. Nakanishi teaches and discloses a liquid crystal display panel capable of reducing persistence degree and a development method (see Title). In particular, Nakanishi's figure 32 illustrates a dielectric layer (13) adjacent a flat electrode (12) to reinforce the lateral component of the electric field in the liquid crystal so that the liquid crystal can be driven with a lower applied voltage (Column 1, Lines 59-66). Nakanishi is evidence that ordinary workers in the field of liquid crystals would

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have found the reason, suggestion and motivation to include a dielectric layer adjacent a common electrode layer to reinforce the lateral component of the electric field in the liquid crystal so that the liquid crystal can be driven with a lower applied voltage (Id). Therefore, it would have been obvious to one of ordinary skill in the art of liquid crystals at the time the invention was made to modify Matsuyama in view of Nakanishi to reinforce the lateral component of the electric field in the liquid crystal so that the liquid crystal can be driven with a lower applied voltage (Id.).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 08/20/2009 /Dung T. Nguyen/ Primary Examiner Art Unit 2871